AMENDMENTS TO THE CLAIMS

(currently amended) A method of speculatively issuing memory requests in a network node while maintaining a specified packet order comprising:
 <u>said network node</u> receiving a first packet and a second packet for forwarding, wherein said first packet is received prior to said second packet;
 <u>maintaining said first packet and said second packet in a transfer order queue</u>;

<u>said network node</u> sending a first memory request corresponding to said first packet;

said network node sending a second memory request corresponding to said second packet prior to said network node receiving a first memory reply corresponding to said first memory request and prior to said second packet moving to a head of said transfer order queue; and

<u>said network node</u> forwarding said first packet prior to forwarding said second packet.

2-3. (cancelled)

- 4. (original) The method as described in Claim 1 wherein said first memory request is to request resource to forward said first packet.
- 5. (Currently Amended) The method as described in Claim 1 further comprising <u>said network node</u> receiving a second memory reply prior to forwarding said first packet.
- 6. (Currently Amended) The method as described in Claim 1 further comprising said network node receiving said first memory reply prior to forwarding said first packet.
- 7. (original) The method as described in Claim 1 wherein said first packet comprises an internet protocol packet.

Serial No.: 10/091,775 Examiner: Wong, Warner

(currently amended) A network method comprising: 8. receiving a first packet and a second packet for forwarding; maintaining said first packet and said second packet in a transfer order queue;

sending a first memory request corresponding to said first packet; and sending a second memory request corresponding to said second packet prior to forwarding said first packet and prior to said second packet moving to a head of said transfer order queue.

9-10. (cancelled)

- 11. (original) The method as described in Claim 8 wherein said first memory request is to request resource to forward said first packet.
- 12. (original) The method as described in Claim 8 further comprising receiving a second memory reply prior to forwarding said first packet.
- 13. (original) The method as described in Claim 8 wherein said first memory reply is received prior to forwarding said first packet.
- (original) The method as described in Claim 8 wherein said first packet 14. comprises an internet protocol packet.
 - (currently amended) A networking device comprising: 15. a first packet processor comprising:

an input interface having a port to accept incoming packets;

an input memory coupled to said input interface for temporarily storing said packets in a queue arranged by a receiving order;

a second packet processor comprising:

Examiner: Wong, Warner Serial No.: 10/091,775 Art Unit: 2668 an output interface having a port to send said packets out of said networking device;

an output memory coupled to said output interface for temporarily storing said packets;

a switching fabric coupled to said first packet processor and said second packet processor for conveying information between said first packet processor and said second packet processor; and

said first packet processor also for sending a memory request corresponding to a first packet which is not at a head of said queue to said second packet processor prior to forwarding a packet which is at said head of said queue.

- 16. (Previously Presented) The networking device as described in Claim 15 wherein said first packet processor is also for receiving a memory reply message from said second packet processor corresponding to said memory request for a said first packet.
- 17. (Previously Presented) The networking device as described in Claim 16 wherein said first packet processor is also for sending a second packet to said second packet processor, wherein said second packet is at the head of said queue.
- 18. (Previously Presented) The networking device as described in Claim 17 wherein said second packet processor is also for receiving said first packet and said second packet.
- 19. (Previously Presented) The networking device as described in Claim 15 wherein said second packet processor is also for sending said first packet out of said networking device.
- 20. (original) The networking device as described in Claim 15 further comprising a plurality of packet processors in addition to said first and said second packet processors coupled to said switching fabric.

Serial No.: 10/091,775 Examiner: Wong, Warner

Art Unit: 2668

- 21. (Previously Presented) The networking device as described in Claim 15 wherein said memory request comprises a first portion to indicate that said first packet is not at a head of said queue.
- 22. (Previously Presented) The networking device as described in Claim 15 wherein said first packet is an internet protocol packet.
 - 23. (currently amended) A networking device comprising:

 a means for sending a memory request corresponding to a second
 packet prior to sending a first packet, wherein said first packet is received prior
 to receiving said second packet, said means for sending a memory request
 comprising:

means for maintaining the transfer order of said first and said second packets, wherein said means for maintaining the transfer order of said first and said second packets comprises a transfer order queue; and

means for sending said memory request for said second packet prior to said second packet reaching a head of said transfer order queue.

24-26. (cancelled)

- 27. (original) The networking device as described in Claim 23 wherein said means for sending a memory request further comprises means to request resource to transfer said packet.
- 28. (original) The networking device as described in Claim 23 wherein said means for sending a memory request further comprises means for accepting a memory reply prior to forwarding said packet.

Serial No.: 10/091,775 Examiner: Wong, Warner

- 29. (original) The networking device as described in Claim 28 wherein said means for accepting a memory reply further comprises means to assign network resource to transfer said packet.
- (original) The networking device as described in Claim 23 wherein 30. said packet is an internet protocol packet.
- (New) The method as described in Claim 1 wherein said first packet 31. and said second packet are maintained in a transfer order queue.
- (New) The method as described in Claim 31 wherein said second 32. memory request is sent prior to said second packet moving to a head of said transfer order queue.
- (New) The method as described in Claim 8 wherein said first packet 33. and said second packet are maintained in a transfer order queue.
- (New) The method as described in Claim 33 wherein said second 34. memory quest is sent prior to said second packet moving to a head of said transfer order queue.
- (New) The networking device as described in Claim 23 wherein said 35. means for sending a memory request further comprises means for maintaining the transfer order of said first and said second packets.
- 36. (New) The networking device as described in Claim 35 wherein said means for maintaining the transfer order of said first and said second packets comprises a transfer order queue.
- (New) The networking device as described in Claim 25 wherein said 37. means for sending a memory request further comprise sending said memory request

Examiner: Wong, Warner Serial No.: 10/091,775 Art Unit: 2668

for said second packet prior to said second packet reaching a head of said transfer order queue.

Examiner: Wong, Warner Art Unit: 2668 Serial No.: 10/091,775 - 7 -